

PRESS RELEASE

Product

EPBP approval: Direct Print Powered by KHS™ certified and fully recyclable

- Direct digital PET bottle printing process recertified
- Sustainable, environmentally-friendly packaging system
- Long-term cost benefits in materials and storage

Dortmund/Duesseldorf, October 5, 2017 – Innovative technology which is fully recyclable: the first digital Direct Print Powered by KHS™ printing process for PET bottles has now again been certified by the European PET Bottle Platform (EPBP). This is the second sustainable and environmentally-friendly innovation from KHS and NMP Systems to be approved by the initiative within a very short time indeed.

Until fairly recently it was impossible to imagine that printed bottles could find their way into the recycling process. However, the research carried out by KHS and its partners on development in this field has since paid off: Direct Print Powered by KHS™ has again been granted interim certification from an official body. The recyclability of the award-winning direct printing process was first certified by the EPBP in 2013 and has now been reconfirmed. This means that an independent organization has clearly attested that PET bottles processed by Direct Print Powered by

KHS™ have no negative impact on the rPET and are thus officially approved for bottle-to-bottle PET recycling.

During development the experts had to overcome one specific challenge before the printed containers could be certified for the recycling process. “The washing water must not be contaminated during the recycling process,” explains Martin Schach, head of the Printing Technology Department at KHS GmbH. “The ink must also not deposit itself on the crushed PET bottles.” KHS has managed to develop a digital printing process with low-migration, LED UV-curing inks for the food-safe decoration of PET bottles where the print reliably flakes off during the recycling process.

More quality, greater performance

Current laboratory tests for the Belgian market, where recycled PET bottles were examined for chemical residues in random checks, confirm the safeness of the process. Here, printed PET bottles from Martens Brouwerij had been fed into the recycling chain. In 2015 the Belgian brewery was the first beverage producer to launch PET bottles with Direct Print Powered by KHS™ to market and make use of the technology which has since been constantly further developed for the customer. These further developments include a higher print quality and new forms of decoration, resulting in a level of flexibility which enables the print on each separate bottle to be individualized through the use of different motifs. An additionally developed printed image inspection system is also to ensure the standard of quality at an even higher level of industrial performance.

In addition to the attractive marketing options this offers the end customer Schach sees a number of other advantages for customers. “Costs for

production will fall in the long term as there's no longer any need for labels and the storage thereof and no more adhesive is needed. Direct Print Powered by KHS™ stands for revolutionary technological advance and is also a step forward when it comes to environmental issues.”

KHS gives its customers sustainability

As a global company KHS continues to do justice to its pioneering role regarding sustainability and with its innovations supports the beverage and food industries in the protection of the environment. Besides Direct Print Powered by KHS™ Nature MultiPack™ by KHS and NMP Systems was also recently granted interim approval. In this form of packaging PET bottles no longer require a secondary packing of film as they are joined and held together by dots of adhesive only. This specially developed adhesive has also been certified.

The EPBP is a voluntary, industry-related initiative which provides PET bottle design guidelines for recycling, among other information. It assesses new PET packaging systems and technologies as regards their effect on the recycling process and tests and certifies these according to strict guidelines.- The EPBP also supports the European PET value chain in its striving for greater economic and ecological sustainability.

For more information go to: www.khs.com

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About NMP Systems GmbH

NMP Systems GmbH, based in Düsseldorf, Germany, is a wholly owned subsidiary of KHS GmbH. The company is responsible for the global marketing of Nature MultiPack™ and Direct Print Powered by KHS™, two innovative, sustainable and future-proof PET packaging systems developed by KHS. KHS GmbH, headquartered in Dortmund, Germany, is one of the world's leading manufacturers of filling and packaging systems for the beverage, food and non-food industries.

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